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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,648	01/19/2007	Oskar Zelder	BGI-160US	9380
959	7590 11/05/2007		EXAMINER	
ONE POST OF	OCKFIELD, LLP FFICE SQUARE		MEAH, MOHAMMAD Y	
BOSTON, MA 02109-2127			ART UNIT	PAPER NUMBER
			1652	
			MAIL DATE	DELIVERY MODE
			11/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/579,648	ZELDER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Mohammad Meah	1652					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. C (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on							
,	action is non-final						
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
	•	•					
Disposition of Claims							
4) Claim(s) 1-44 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
7) Claim(s) is/are objected to.	Claim(s) is/are rejected.						
	8) Claim(s) 1-44 are subjected to:						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The bath of declaration is objected to by the Ex	animer. Note the attached Office	Action of form F 10-102.					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	· .						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application					

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DETAILED ACTION

The claims 1-44 are pending in the instant office action.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claims 1-12, drawn to a method of increasing metabolic flux in a microorganism by deregulating lactate dehydrogenase gene.

Group 2-19, claims 1, 13-21 drawn to a method of increasing metabolic flux in a microorganism by deregulating lactate dehydrogenase gene and further deregulating additional genes wherein ask gene in group 2, dapA gene in group 3 --- , sigC gene in group 19 (see all these gene in claim 14).

Group 20, claims 22-28, 46-47, drawn to a method production of chemicals using microorganism having deregulated lactate dehydrogenase gene.

Groups 21-38, claims 29-45, method production of chemicals using microorganism having deregulated lactate dehydrogenase gene and further one or more deregulated additional genes wherein ask gene in

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group 21, dapA gene in group 22 --- , sigC gene in group 38 (see all these gene in claim 30).

Group 39. claims 48-54, drawn to recombinant microorganism having deregulated lactate dehydrogenase gene.

The inventions listed in Groups 1-39 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature of Groups 1-38 is method steps using particular reagents. Said steps include making different product using microorganism having different genes having different technical features deregulated in its pentose phosphate pathway. Technical feature of group 239 is microorganism, though said microorganism is used in the method steps of group 20, they can be used in different method steps to produce different compound such as to synthesis enzyme.

Furthermore', the technical feature linking group 1-16 appears to be that they all relate to method of use of microorganism having deregulated lactate dehydrogenase gene which does not constitute a "special technical feature" as defined by PCT Rule 13.2, because it does not claim a feature which defines a contribution over the prior art use of microorganism having deregulated lactate dehydrogenase gene is taught thorough (WO 01/07626, from IDS).

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention,

the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of

the currently named inventors is no longer an inventor of at least one claim remaining in

the application. Any amendment of inventorship must be accompanied by a request

under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Mohammad Younus Meah, PhD

Examiner, Art Unit 1652

Recombinant Enzymes, 3C31 Remsen Bld

400 Dulany Street, Alexandria, VA 22314

Telephone: 517-272-1261